

DSN Antenna Downtime Status and Forecast



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Antenna Downtime Status and Forecast

The following downtime periods were approved at the February 2007 RAR

Newly Approved Downtimes 2007

- ❑ DSS-14 Grouting – NIB and ACR S/W upgrade Proposed in weeks 40 – 42
- ❑ DSS-45 Antenna Controller Replacement proposed in weeks 40 – 46
- ❑ DSS-65 200W S-Band U/L and Depot Level Maintenance – NIB proposed for weeks 44 – 49

Newly Approved Downtimes 2008

- ❑ DSS-34 Downtime for Ka-Band Phase 2 Install with DLM – NIB proposed for weeks 29 – 39 for 77 days will be discussed during the INCF / RAR on February 13, 2007

Newly Approved Downtimes 2009

- ❑ DSS-24 Downtime for Ka-Band Phase 2 Install with DLM – NIB proposed for weeks 28 – 38 for 77 days will be discussed during the INCF / RAR on February 13, 2007

Newly Approved Downtimes 2010

- ❑ DSS-54 Downtime for Ka-Band Phase 2 Install with DLM – NIB proposed for weeks 28 – 38 for 77 days will be discussed during the INCF / RAR on February 13, 2007

All previous downtime proposals have been agreed to by all DSN Missions/Users through the INCF/RAR, JURAP or Mid-Range Scheduling Process

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Changes to 2007 Downtime Schedule

- ❑ Two hour complex-wide downtime per complex every six months for Network Infrastructure, this will be used to scan complex servers for vulnerabilities
- ❑ Per DSS-46 request, painting time has changed from DOY 094 – 097 to 092 – 094 (22:00 – 08:00) and has been successfully negotiated and approved in the schedule
- ❑ QPOD APEX MOUNT (DSS-24) has been rescheduled in the mid-range schedule from DOY 81 – 82 to DOY 163, 168

Changes to 2008 Downtime Schedule

- ❑ Two hour complex-wide downtime per complex every six months for Network Infrastructure, this will be used to scan complex servers for vulnerabilities
- ❑ MDSCC Complex-wide downtime for Commercial Power Installation on March 23 – 24, 30 – 31, and April 6 – 7 as 12 hour back-to-back blocks

Changes to 2010 Downtime Schedule

- ❑ DSS-25 Ka U/L downtime weeks 13 – 15

All previous downtime proposals have been agreed to by all DSN Missions/Users through the INCF/RAR, JURAP or Mid-Range Scheduling Process

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DSN Antenna Downtime Report

2007							
Site	Description	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
DSS 65	Antenna Drive Cabinet Refurbishment	02/26/2007 00:00	04/16/2007 23:59	50	09 - 16	057	106
DSS 43	Painting	03/26/2007 01:00	04/02/2007 23:59	7	13 - 13	085	091
DSS 46	Painting	04/03/2007 22:00	04/07/2007 08:00	4	14 - 14	093	096
DSS 14	Grouting	04/27/2007 00:00	05/08/2007 23:59	11	17 - 19	117	127
DSS 14	HALON Replacement- NIB	04/27/2007 00:00	05/08/2007 23:59	11	17 - 19	117	127
DSS 46	Hydraulics	05/14/2007 00:00	05/19/2007 23:59	5	20 - 20	134	138
DSS 66	Hydraulics Task	05/28/2007 00:00	06/01/2007 23:59	5	22 - 22	148	152
DSS 63	Hydrostatic Bearing Replacement	06/12/2007 00:00	09/16/2007 23:59	97	24 - 37	163	259
DSS 63	Depot Level Maintenance - NIB	06/12/2007 00:00	09/16/2007 23:59	97	24 - 37	163	259
DSS 63	Load Sensors Install - NIB	06/12/2007 00:00	09/16/2007 23:59	97	24 - 37	163	259
DSS 45	Antenna Drive Cabinet Refurbishment	08/27/2007 00:00	10/01/2007 23:59	36	35 - 40	239	274
DSS 45	S-Band 200w U/L Install - NIB	08/27/2007 00:00	10/01/2007 23:59	36	35 - 40	239	274
DSS 45	Depot Level Maintenance - NIB	08/27/2007 00:00	10/01/2007 23:59	36	35 - 40	239	274
DSS 45	Antenna Controller Replacement	10/01/2007 00:00	11/19/2007 23:59	49	40 - 46	274	322
DSS 14	ACR S/W Install	10/08/2007 00:00	10/21/2007 23:59	13	41 - 42	281	293
DSS 14	Grouting - NIB	10/08/2007 00:00	10/14/2007 23:59	7	41 - 41	281	287
DSS 65	200w S-Band U/L	10/29/2007 00:00	12/10/2007 23:59	42	44 - 49	302	343
DSS 65	Depot Level Maintenance - NIB	10/29/2007 00:00	12/10/2007 23:59	42	44 - 49	302	343

Antenna Downtime Status and Forecast

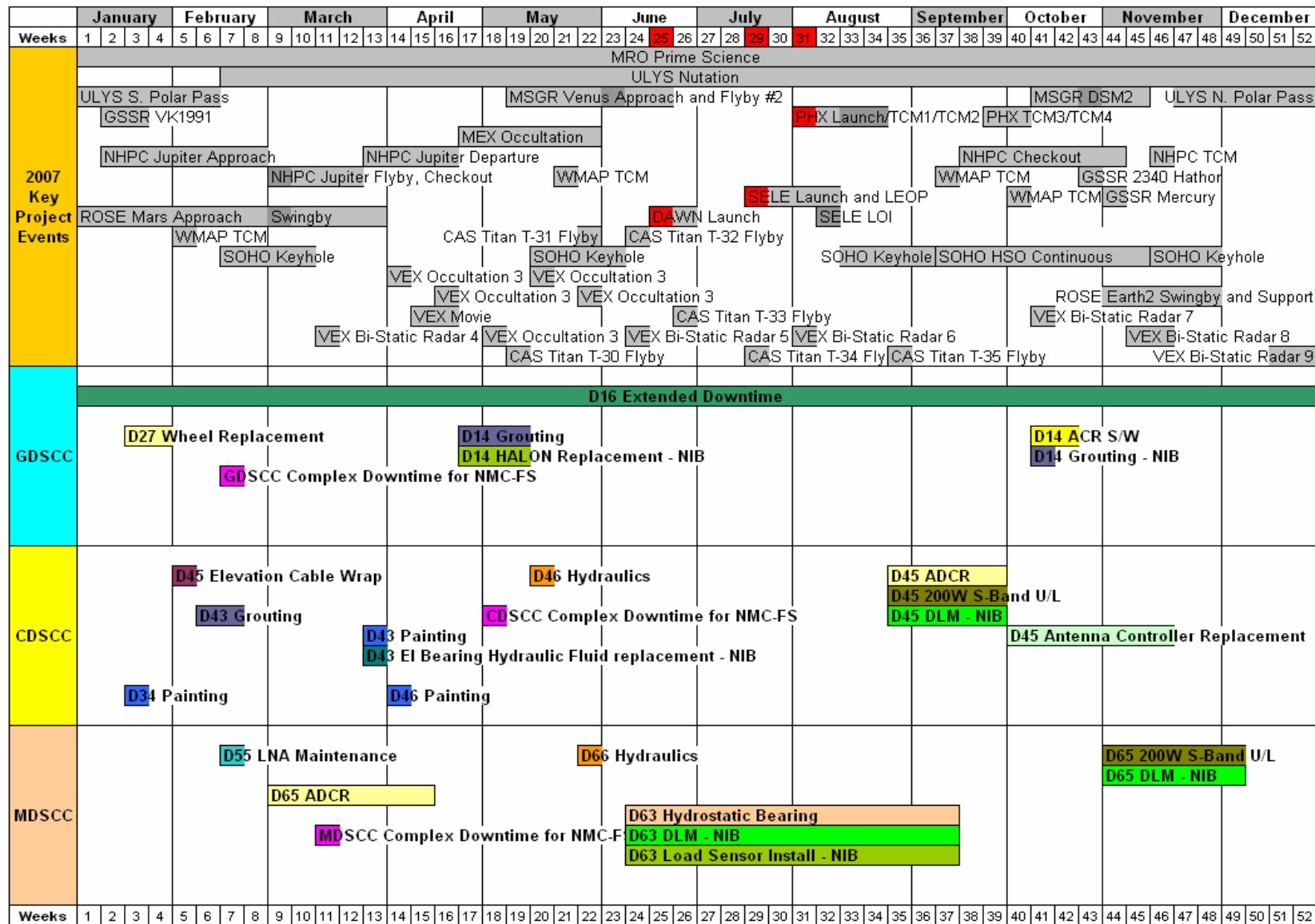
DSN Antenna Downtime Report

2008							
Site	Description	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
DSS 54	X/Ka-Band Install	02/04/2008 00:00	05/11/2008 23:59	98	06 - 19	035	132
DSS 54	AZ Track Refurbishment - NIB	02/04/2008 00:00	05/11/2008 23:59	98	06 - 19	035	132
DSS 54	AZ Data Gear Replacement - NIB	02/04/2008 00:00	05/11/2008 23:59	98	06 - 19	035	132
DSS 54	Q-Band Installation - NIB	02/04/2008 00:00	05/11/2008 23:59	98	06 - 19	035	132
DSS 54	Depot Level Maintenance - NIB	02/04/2008 00:00	05/11/2008 23:59	98	06 - 19	035	132
DSS 15	Life Extension	02/18/2008 00:00	05/11/2008 23:59	84	08 - 19	049	132
DSS 15	Depot Level Maintenance - NIB	02/18/2008 00:00	05/11/2008 23:59	84	08 - 19	049	132
DSS 34	Ka-Band Phase 2 Install	07/14/2008 00:00	09/29/2008 23:59	77	29 - 39	196	272
DSS 34	Depot Level Maintenance - NIB	07/14/2008 00:00	09/29/2008 23:59	77	29 - 39	196	272
DSS 43	Life Extension	09/29/2008 00:00	03/29/2009 23:59	182	40 - 13	273	088
DSS 43	Depot Level Maintenance - NIB	09/29/2008 00:00	03/29/2009 23:59	182	40 - 13	273	088

2009							
Site	Description	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
DSS 63	Life Extension	03/30/2009 00:00	09/27/2009 23:59	182	14 - 39	089	270
DSS 24	Ka-Band Phase 2 Install	07/06/2009 00:00	09/21/2009 23:59	77	28 - 38	187	263
DSS 24	Depot Level Maintenance - NIB	07/06/2009 00:00	09/21/2009 23:59	77	28 - 38	187	263
DSS 14	Life Extension	09/28/2009 00:00	03/28/2010 23:59	182	40 - 12	271	087

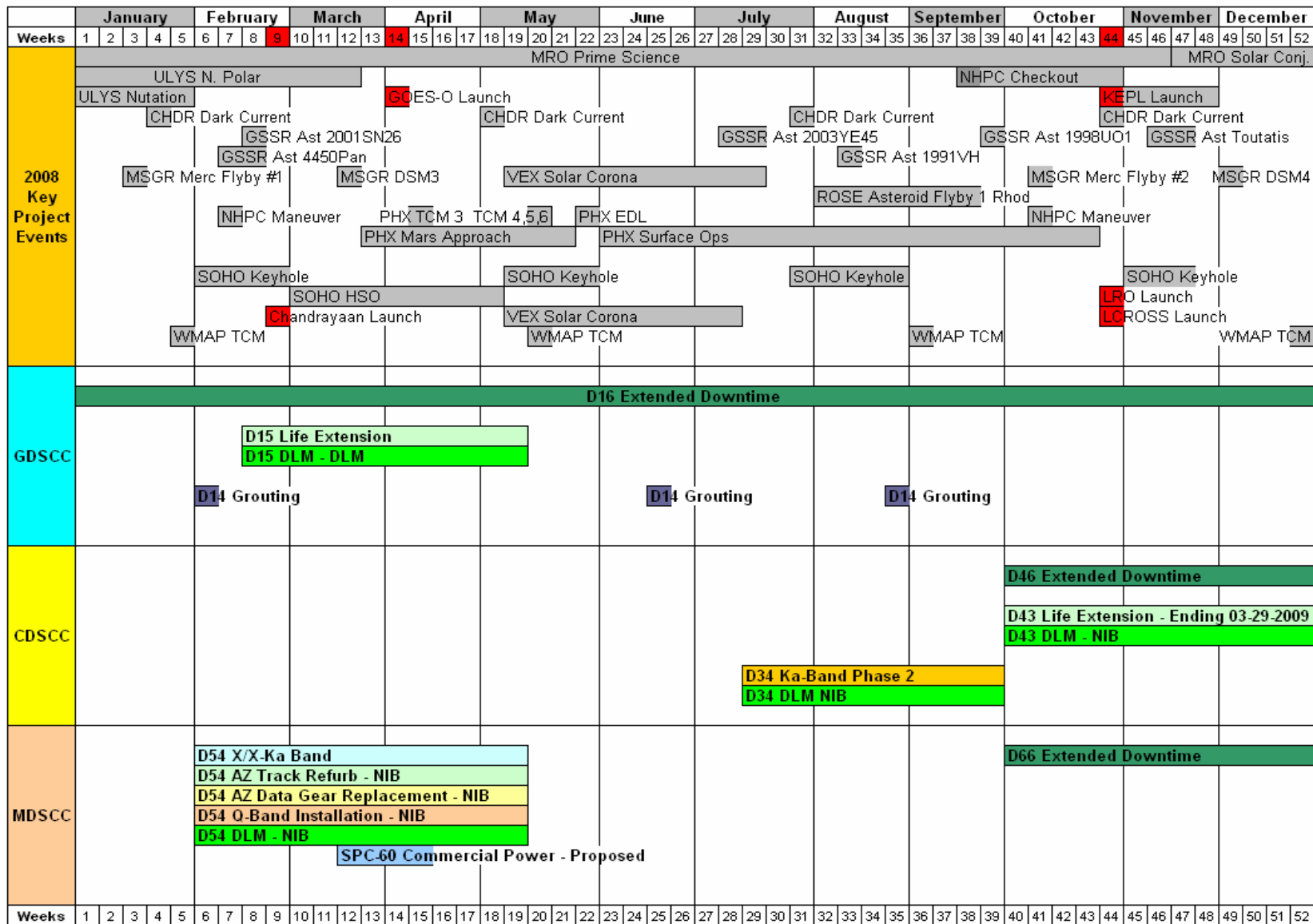
2010							
Site	Description	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
DSS 54	Depot Level Maintenance - NIB	07/12/2010 00:00	09/27/2010 23:59	77	28 - 38	193	269
DSS 54	Ka-Band Phase 2 Install	07/12/2010 00:00	09/27/2010 23:59	77	28 - 38	193	269

Antenna Downtime Status and Forecast 2007



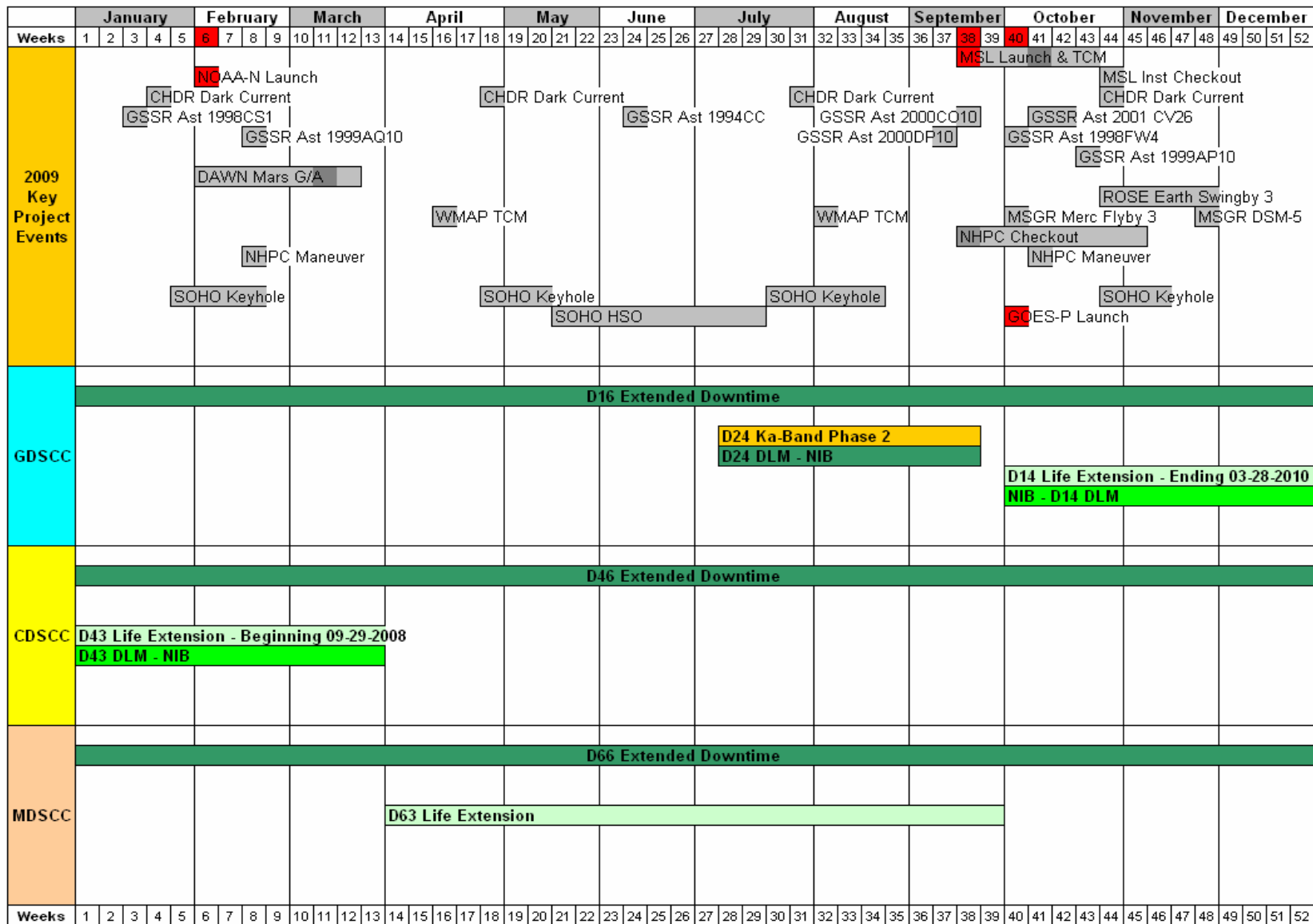
Revised: March 5, 2007

Antenna Downtime Status and Forecast 2008



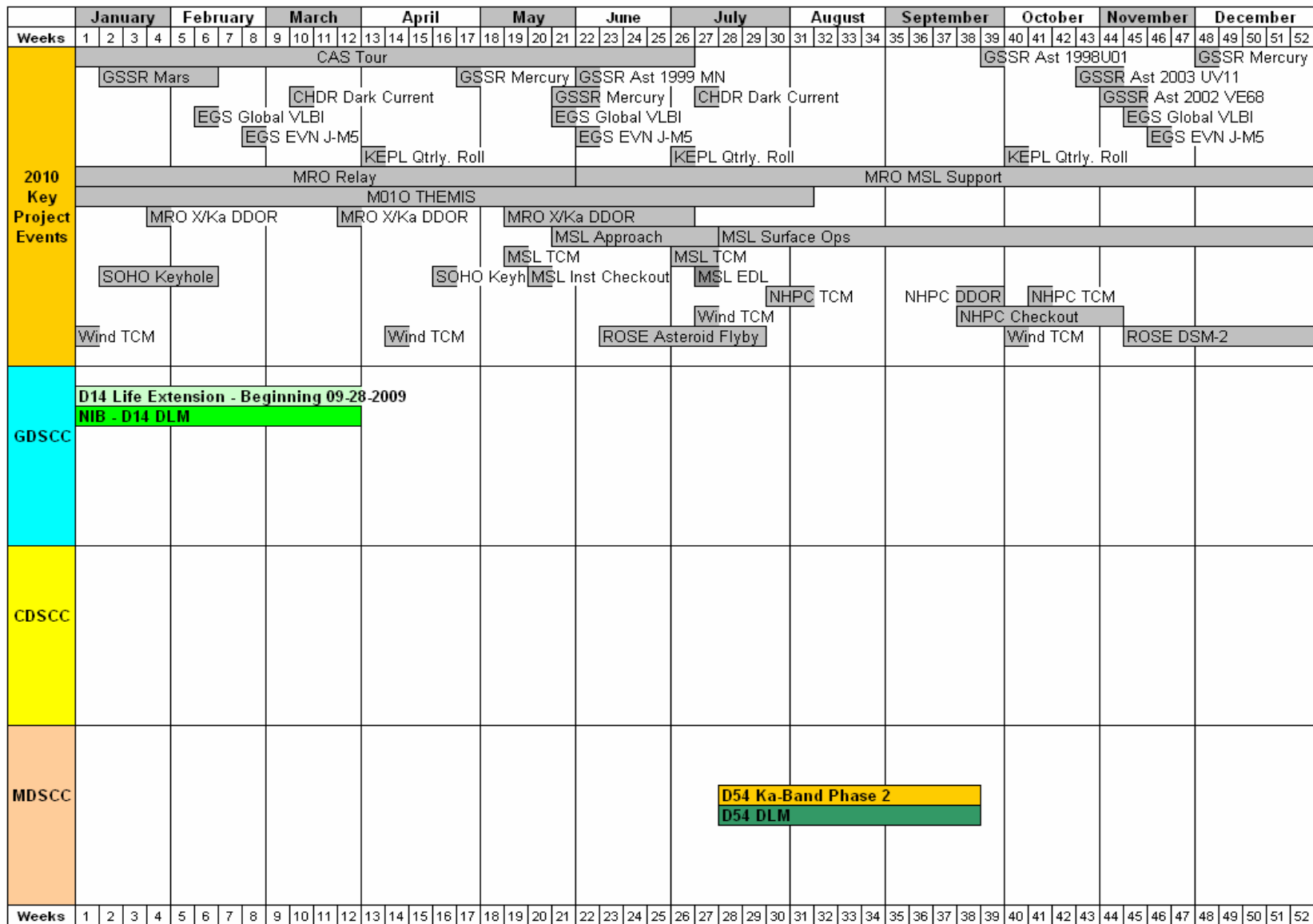
Revised: March 26, 2007

Antenna Downtime Status and Forecast 2009



Revised: March 26, 2007

Antenna Downtime Status and Forecast 2010



Revised: March 26, 2007

Antenna Downtime Status and Forecast

DSN Resource Implementation Planning Matrix by Subnet

Complex	Station	Subnet	S-Band		X-Band		Ka-Band		Ka Phase 2
			Down	Up	Down	Up	Down	Up	
10	DSS-16	26M	✓	✓	N/A	N/A	N/A	N/A	N/A
40	DSS-46	26M	✓	✓	N/A	N/A	N/A	N/A	N/A
60	DSS-66	26M	✓	✓	N/A	N/A	N/A	N/A	N/A
10	DSS-27	34HSB	✓	✓	N/A	N/A	N/A	N/A	N/A
10	DSS-24	34B1	✓	✓	✓	✓	N/A	N/A	09/21/09
40	DSS-34	34B1	✓	✓	✓	✓	✓	N/A	09/29/08
60	DSS-54	34B1	✓	✓	✓	✓	04/15/08	N/A	09/27/10
10	DSS-25	34B2	N/A	N/A	✓	✓	✓	N/A	N/A
10	DSS-26	34B2	N/A	N/A	✓	✓	✓	N/A	N/A
60	DSS-55	34B2	N/A	N/A	✓	✓	✓	N/A	N/A
10	DSS-15	34HEF	✓	N/A	✓	✓	N/A	N/A	N/A
40	DSS-45	34HEF	✓	12/19/07	✓	✓	N/A	N/A	N/A
60	DSS-65	34HEF	✓	12/19/07	✓	✓	N/A	N/A	N/A
10	DSS-14	70M	✓	✓	✓	✓	N/A	N/A	N/A
40	DSS-43	70M	✓	✓	✓	✓	N/A	N/A	N/A
60	DSS-63	70M	✓	✓	✓	✓	N/A	N/A	N/A
N/A = Capability Not Planned xx/xx/xx = Capability Date Recently Changed As of: 02/09/07 ✓ ✓ ✓ = Capability Recently Exists ✓ = Capability Exists									